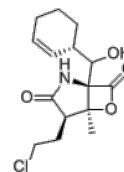


Product Name : Marizomib
Cat. No. : PC-61315
CAS No. : 437742-34-2
Molecular Formula : C₁₅H₂₀ClNO₄
Molecular Weight : 313.781
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

Marizomib (NPI 0052, Salinosporamide A) is a potent, orally bioactive **20S proteasome** inhibitor with IC₅₀ of 1.3 nM (inhibition of proteasomal chymotrypsin-like proteolytic activity).

Marizomib displays 35 times more potent than omuralide; induces apoptosis in multiple myeloma cells with mechanisms distinct from Bortezomib, including chemical structure, effects on proteasome activities, mechanisms of action, and toxicity profile against normal cells.

Marizomib significantly reduces tumor recurrence in animal tumor model studies.

References

Chauhan D, et al. *Cancer Cell*. 2005 Nov;8(5):407-19.

Feling RH, et al. *Angew Chem Int Ed Engl*. 2003 Jan 20;42(3):355-7.

Ruiz S, et al. *Mol Cancer Ther*. 2006 Jul;5(7):1836-43.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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